## CONSUMPTIVE USE RATES FOR ALFALFA

	CU - IN./DAY				CIR - IN/	DAY	ACIR - IN/DAY			
MONTH	PEAK	MEAN	LOW	PEAK	MEAN	LOW	PEAK	MEAN	LOW	
APRIL	./2	.10	.04	.08	.07	.03	-1/	.09	.04	
MAY	.22	-/B	.07	.13	<b>.</b> 1/	.04	. 18	.15	.06	
JÜNE	.23	. 19	<b>.</b> 08	012	.10.	.04	s/8	.15	.06	
JULY	.34	.28	- //	. 22	.18	.07	.28	.23	.09	
AUG.	.29	.24	-10	-19	.16	.06	.24	.20	.08	
SEPT.	.19	.16	.06	.12	.10	.04	.16	./3	.05	
OCT.	./2	10	.04	.05	.04	.02	.08	.07	.03	

Consumptive use studies conducted on alfalfa at Fort Sumner, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season, has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

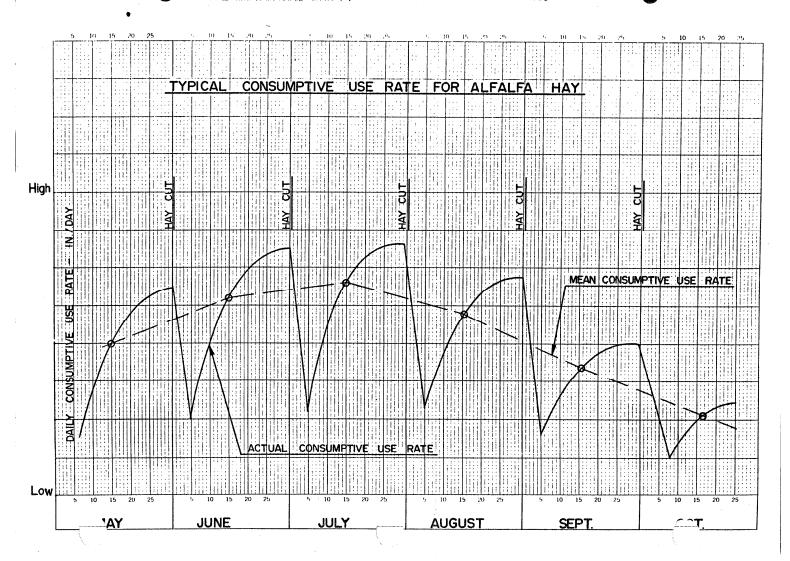
Alfalfa grown for seed production will have a consumptive use value equal to the peak value during full cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay growers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)

YEARLY VOLUME AT 100% EFFICIENCY						
CU	CIR	ACIR				
34.4	21.1"	27.8"				



FOR

CLOVIS FIELD OFFICE

					-			
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YEAR	TOTAL CIR "/YEAR	TOTAL ACIR "/YEAR
Cool						: N		
Season	MAR.	.04	.02	.03		35.4	19.8	27.6
Irrigate	d April	.09	.06	.08				
Pasture	May	. 15	.08	.12				
	June	.20	-11	-16				
	July	.23	./3	.18				
	Aug.	.2/	./3	.17				
	Sept.	. 14	.08	- 11			-	
	Oct.	.08	.02	.05				
	NOV.	.03	.02	.03				
Warm								
Season								
Irrigate	d April	•				30.3	16.6	23.5
Pasture	May	.15	.08	./2				
	June	.20	-11	.16				
	July	. 23	./3	.18	,			1.
	Aug.	.2/	.13	.17				
	Sept.	. 14	.08	.11				
	Oct.	.08	.02	.05				
						<u> </u>		
The cons	umptive u	se of irr	igated p	sture fo	llows the	same ger	eral flu	tuations
during t	ne growing to not or	g season ly cuttin	us those a for ha	snown fo v. but al	so grazir	g. Since	the gra	ing
intensit	y can var	y greatly s. There	from fa	rm to far	m, no att	empt has	been mad	to plot
these fl	Huctuation	the cons	nore, th umptive	e above duse of in	rigated r	asture.	lean mone	I I Y UI
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## CONSUMPTIVE USE REQUIREMENTS CC-TR2I-4/8/for CLOV/S Field Office

CROP	MONTH	cu "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
GRAIN	MAY	.07		.04		25.3	13.5	19.4
	JUNE		.05	. 10.				
	3024	.27	.17	.22			·	
	AUG.	.24	.16	.20				
	SEPT.		.07	./0				
	oct.	.06		.03				
CORN	APRIL	.05	.02	.04	,	32.4	19.7	26.0
	mAY	. 1/	.04	.08				
	JUNE		-11	. 17				
	JULY		. 19	.24				
	AUG.	.25	. 17	.21		20 20 20 20 20 20 20 20 20 20 20 20 20 2		
	SEPT.	-16	. 10	.13				
WINTER WHEAT	SEPT.	. 05	_	.03		19.4	10.2	14.8
	OCT.	.08	.02	.05				
	Novo	.061.8	.05	.06				
	MAR.	. 092.7	.07	.08				
	APRIL	.154,5		.14				
	MAY	.185.4	. 11	15				
	JUNE	.0721		.04				
				. %				
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CONSUMPTIVE USE REQUIREMENTS	cc-TRZ1-4/8/
for	
 CLOUIS	Field Office

BUSINE NAME03 .02 .03 .39.8 25.9 32.9  APRIL .06 .03 .05  IMAY .13 .06 .10  JUNE .23 .14 .17  OCT12 .06 .09  MATURE MINOGREAK  TREES  APRIL .0Z — .01  JUNE .11 .02 .07  JUNE .26 .16 .22  SEPT .24 .18 .21  OCT11 .05 .08									
BEETS MAR03 .02 .03 .37.8 25.7 32.7  APRIL .06 .03 .05  IMAY .13 .06 .10  JUNE .23 .14 .19  SULY .31 .21 .26  AUG30 .22 .26  SEPT20 .14 .17  OCT12 .06 .09  MATURE WINDBREAK  TREES  APRIL .02 — .01  JUNE .11 .02 .07  JUNE .11 .02 .07  JULY .21 .11 .16  AUG26 .18 .22  SEPT24 .18 .21	CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
MAY .13 .06 .10  JUNE .23 .14 .19  JUNE .30 .22 .26  AUG30 .22 .26  SEPT20 .14 .17  OCT12 .06 .09  MATURE WINDBREAK  TREES  APRIL .02 — .01 Z9.7 /5.1 Z2.4  MAY .64 — .01  JUNE .11 .02 .07  JUNE .11 .02 .07  JULY .21 .11 .16  AUG26 .18 .22  SEPT24 .18 .21	SUGAR BEETS	MAR.	.03	50.	. ο3		39.8	25.9	32.9
MAY .13 .06 .10  JUNE .23 .14 .19  JULY .31 .21 .26  AUG30 .22 .26  SEPT20 .14 .17  OCT12 .06 .09  MATURE WINDBREAK  TREES  APRIL .0Z — .01					.05	,			
JUNE .23 ./4 ./9  JULY .3/ .2/ .26  AUG30 .22 .26  SEPT20 ./4 ./7  OCT/2 .06 .09  MATURE WINDBREAK  TREES  APRIL .0Z — .0/ .29.7 /5./ 22.4  MAY .64 — .0/  JUNE .// .02 .07  JULY .2/ .// .// .// .// .// .// .// .// .//				.06	.10				· · · · · · · · · · · · · · · · · · ·
AUG. 30 .22 .26  SEPT20 ./4 ./7  OCT/2 .06 .09  MATURE WINDBREAK  TREES  APRIL .OZ — .O/ 29.7 /5./ 22.4  MAY .64 — .O/  JUNE .// .OZ .O7  JULY .Z/ .// ./6  AUGZ6 ./8 .ZZ  SEPTZ4 ./8 .Z/		JUNE		. 14	.19				
SEPT20 .14 .17  OCT12 .06 .09  MATURE WINDBREAK  TREES  APRIL .0Z — .01 Z9.7 /5.1 ZZ.4  MAY .64 — .01  JUNE .11 .0Z .07  JULY .21 .11 .16  AUG26 .18 .22  SEPT24 .18 .21		502Y		.2/	.26				
OCT12 .06 .09  MATURE WINDBREAK  TREES  APRIL .0Z — .01 Z9.7 15.1 22.4  MAY .04 — .01  JUNE .11 .0Z .07  JULY .21 .11 .16  AUG26 .18 .22  SEPT24 .18 .21		AUG.	,30	.22	.26				
MATURE WINDBREAK  TREES  APRIL .OZ — .O/ 29.7 /5./ 22.4  MAY .O4 — .O/  JUNE .// .OZ .O7  JULY .Z/ .// ./6  AUGZ6 ./8 .Z2  SEPTZ4 ./8 .Z/		SEPT.	.20						
WINDBREAK TREES  APRIL .OZ — .O/ Z9.7 /5./ ZZ.4  MAY .64 — .O/  JUNE .// .OZ .O7  JULY .Z/ .// .// .//  AUGZ6 ./8 .Z2  SEPTZ4 ./8 .Z/		OCT.	.12	.06	.09			ļ	
WINDBREAK TREES  APRIL .OZ — .O/ Z9.7 /5./ ZZ.4  MAY .64 — .O/  JUNE .// .OZ .O7  JULY .Z/ .// .// .//  AUGZ6 ./8 .Z2  SEPTZ4 ./8 .Z/									
APRIL .OZ — .O/ Z9.7 /5./ ZZ.4  may .o4 — .O/  JUNE .// .OZ .O7  JULY .Z/ .// .// .//  AUGZ6 ./8 .ZZ  SEPTZ4 ./8 .Z/	WINDBR	EAK							
MAY .04 — .01  JUNE .11 .02 .07  JULY .21 .11 .16  AUG26 .18 .22  SEPT24 .18 .21	TREES						******		a manual state on amount office
JUNE .// .02 .07  JULY .Z/ .// ./6  AUGZ6 ./8 .22  SEPT24 ./8 .Z/		APRIL			.01		29.7	15.1	22.4
JULY .21 .11 .16  AUG26 .18 .22  SEPT24 .18 .21		MAY	.04		.01				
AUG26 .18 .22 SEPT24 .18 .21		JUNE	.//	.02	.07				
SEPT24 .18 .21		JULY	·2/	0//	.16				
		AUG.	.26	./8	.22				
OCT// .05 .08		SEPT.	.24	./8					
		OCT.	.11	.05	.08		<u> </u>	<u> </u>	
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